AMENDMENTS TO THE CLAIMS:

The listing of claims will replace all prior versions, and listings of claims in the application:

LISTING OF THE CLAIMS

- (Original) A peptide having a sequence of amino acids which is identical to a sequence of consecutive amino acids found within amino acids 695 to 698 (SEQ ID NO.
 of the human blood clotting factor Va.
- 2. (Original) The peptide of claim 1 wherein the peptide exhibits an IC_{50} of less than about 100 μ M, the IC_{50} being the amount of the peptide that inhibits 50% of the activity of human factor Va.
- 3. (Original) The peptide of claim 2 wherein the peptide exhibits an IC $_{50}$ of less than about 15 μ M.
- 4. (Original) The peptide of claim 3 wherein the peptide exhibits an IC $_{50}$ of about 1.6 μ M.
- 5. (Original) The peptide of claim 4 wherein the peptide exhibits an IC_{50} of about 500 nM.
- 6. (Previously Presented) The peptide of claim 1 wherein the peptide comprises the amino acid sequence DYDY.
- 7. (Previously Presented) The peptide of claim 1 wherein the peptide comprises the amino acid sequence DYDYQ.
 - 8. (Original) A pharmaceutical composition comprising the peptide of claim 1.

Claim 9 (Canceled)

10. (Original) A peptide analogue that mimics the peptide of claim 1.

Claims 11-42 (Canceled)

- 43. (Original) A pharmaceutical composition adapted for inhibiting thrombin generation, the composition comprising a peptide including an amino acid sequence DYDY (SEQ ID NO. 10).
- 44. (Original) The pharmaceutical composition of claim 43 further comprising a carrier.
- 45. (Original) The pharmaceutical composition of claim 43 wherein one of the Y amino acids of the amino acid sequence is sulfonated.
- 46. (Original) The pharmaceutical composition of claim 45 wherein the amino acid sequence of the peptide is DY(-SO₃)DY.
- 47. (Original) The pharmaceutical composition of claim 45 wherein the amino acid sequence of the peptide is DYDY(-SO₃).
- 48. (Original) The pharmaceutical composition of claim 43 wherein both of the Y amino acids of the amino acid sequence are sulfonated.
- 49. (Original) The pharmaceutical composition of claim 48 wherein the amino acid sequence of the peptide is DY(-SO₃)DY(-SO₃).

Claim 50 (Canceled)

51. (Original) A pharmaceutical composition comprising a peptide analogue that mimics the peptide of the composition of claim 43.

Claims 52-111 (Canceled)

- 112. (Previously Presented) A peptide consisting of a sequence of four amino acids which is identical to a sequence of consecutive amino acids found within amino acids 695 to 698 (SEQ ID NO. 10) of the human blood clotting factor Va.
- 113. (Previously Presented) The peptide of claim 112 wherein the peptide comprises the amino acid sequence DYDY.
- 114. (Previously Presented) A pharmaceutical composition comprising the peptide of claim 112.
- 115. (Previously Presented) A peptide analogue that mimics the peptide of claim 112.
- 116. (Previously Presented) A peptide consisting of a sequence of five amino acids which is identical to a sequence of consecutive amino acids found within amino acids 695 to 699 (SEQ ID NO. 11) of the human blood clotting factor Va.
- 117. (Previously Presented) The peptide of claim 116 wherein the peptide comprises the amino acid sequence DYDYQ.
- 118. (Previously Presented) A pharmaceutical composition comprising the peptide of claim 116.
- 119. (Previously Presented) A peptide analogue that mimics the peptide of claim 116.
- 120. (Previously Presented) A pharmaceutical composition adapted for inhibiting thrombin generation, the composition comprising a peptide consisting of an amino acid sequence DYDY (SEQ ID NO. 10).
 - 121. (Previously Presented) The pharmaceutical composition of claim 120 further

comprising a carrier.

- 122. (Previously Presented) The pharmaceutical composition of claim 120 wherein one of the Y amino acids of the amino acid sequence is sulfonated.
- 123. (Previously Presented) The pharmaceutical composition of claim 122 wherein the amino acid sequence of the peptide is DY(-SO₃)DY.
- 124. (Previously Presented) The pharmaceutical composition of claim 122 wherein the amino acid sequence of the peptide is DYDY(-SO₃).
- 125. (Previously Presented) The pharmaceutical composition of claim 120 wherein both of the Y amino acids of the amino acid sequence are sulfonated.
- 126. (Previously Presented) The pharmaceutical composition of claim 125 wherein the amino acid sequence of the peptide is DY(-SO₃)DY(-SO₃).
- 127. (Previously Presented) A pharmaceutical composition comprising a peptide analogue that mimics the peptide of the composition of claim 120.
- 128. (Previously Presented) A pharmaceutical composition adapted for inhibiting thrombin generation, the composition comprising a peptide consisting of an amino acid sequence DYDYQ (SEQ ID NO. 11).
- 129. (Previously Presented) The pharmaceutical composition of claim 128 further comprising a carrier.
- 130. (Previously Presented) The pharmaceutical composition of claim 128 wherein one of the Y amino acids of the amino acid sequence is sulfonated.
- 131. (Previously Presented) The pharmaceutical composition of claim 130 wherein the amino acid sequence of the peptide is DY(-SO₃)DYQ.

- 132. (Previously Presented) The pharmaceutical composition of claim 130 wherein the amino acid sequence of the peptide is DYDY(-SO₃)Q.
- 133. (Previously Presented) The pharmaceutical composition of claim 128 wherein both of the Y amino acids of the amino acid sequence are sulfonated.
- 134. (Previously Presented) The pharmaceutical composition of claim 133 wherein the amino acid sequence of the peptide is DY(-SO₃)DY(-SO₃)Q.
- 135. (Previously Presented) A pharmaceutical composition comprising a peptide analogue that mimics the peptide of the composition of claim 128.